

General Info

The Rotary Module is the fourth module available on the F Series (Drag Module, Tangential Module, Routing Module). This module has a decagonal (10 corners / almost round) tangentially controlled knife, which is driven by an electronic motor.



All kinds of thin materials can be cut with the rotary knife. However, the main focus is on textiles because certain types of fibres are hard to cut with other knife types. In general the vacuum table has less grip on textiles. The rotary knife produces minimal horizontal force, ensuring the material stays in place.

After each job, dust is removed from the knife by compressed air.

Compatibility

The Rotary Module is installed in slot 3. It allocates slot 2&3 of the head (similar to the routing tool). Slot 1 remains free for another tool. Of course the module can be dismantled easily, making the two slots available again.

Initial installation requires NO assembling or wiring.

The module is compatible with all F1612/F2630 installations, also the ones that are already in the field. However, firmware and/or software updates may be required. Two pneumatic connectors are included: one for the F1612 and one for the F2630.

The module requires compressed air to blow away the dust from the tool. The compressed air requirements are rather low: 7 bar (100 PSI) @ 20 l/min (0.7cfm). This is the same as for the pneumatic pack – conveyor system.

Part numbers:

- 500-9360: Rotary Module




Includes:

- Rotary Module
- 1x Rotary knife 28 mm
- 1x 100 mm Wrench

Shipping: 1 Box

- 52 x 35 x 10 cm – 3.2 kg

Rotary knives:

500-9860	500-9861	500-9862
(Set of 3)	(Set of 3)	(Set of 3)
		
25 mm	28 mm	32 mm
Decagonal (10 corners)	Decagonal (10 corners)	Decagonal (10 corners)
Up to 1.5 mm thick	Up to 3 mm thick	Up to 5 mm thick

Notes:

- The bigger the knife diameter, the thicker the material that can be cut. With the 32 mm knife up to 5 mm light foam material can be cut.
 - Rotary knives generate significant overcuts. A smaller knife generates a smaller overcut. SummaFlex Pro has a special overcut compensation method for rotary knives.
 - Smaller knives also have more torque. This gives it the possibility to cut more rigid but thin material.
- MT9019: Wrench 10 mm (to easily replace the knife):

Practical

- The module can be installed in slot 3, just like any other module. An electronic connector (for the motor) and a pneumatic connector (for cleaning) are available.
- The calibration is similar to the one for a tangential tool (eg. cutout tool).
- The rotation speed can be set in Axis Control. Usually Medium setting (12000 RPM) is used.
 - Low: 8000 RPM
 - Medium: 12000 RPM
 - High: 16000 RPM
- In most light textile materials the maximum speed (1000 mm/sec) can be used. However, when using the tool in more rigid material speed reduction will be required.
- In SummaFlex (after the required updates) the 'Rotary Knife' can be selected and speed can be set.

- Rotary knives generate significant overcuts. Therefore, this tool is not suitable for small designs.
- Ideal materials to cut with the rotary knife are: flag & banner material, felt, technical textiles, fabric, foams, ...

Warranty

The warranty on the Rotary Module for F Series partners is 2 years on parts. The knife is excluded from these 2 years on parts warranty. The knife is covered by the consumable warranty. High wear on the module, caused by cutting inappropriate materials, will not be covered by the warranty as it is considered to be abusive manipulation.

Maintenance

Cutting textile may generate a lot of dust. At the end of each job the tool is cleaned with compressed air. However, also manual cleaning may be required. Moreover, in order to keep maximum vacuum power on the table, the conveyor belt and/or protection mat should be cleaned thoroughly, as well.